ECS Configuration Change Request

1. Originator	2. Log Date:	3. CCR #:	4. Rev:	5. Tel:	6. Rm #:	7. Dept.
Evan Winston	2 Jun 00	00-0598	—	301.925.0348	2013	DEV/CO

8. CCR Title: Test Executable 5A.06 Faun Testarossa.01 for Delivery to DAACs and VATC. Changes to ScienceDataServer Database for Transition to 5B.

9. Originator Signature/Date	10. Class	11. Type:	12. Need Date: 2June2000
6/2/2000	II	CCR	

13. Office Manager Signature/Date	14. Category of Change:	15. Priority: (If "Emergency" fill in Block 28).
for Tim Ortiz 6/2/2000	Update ECS Baseline Doc.	Emergency

16. Documentation/Drawings Impacted:	17. Schedule Impact:	18. CI(s) Affected:
N/A	N/A	DSS

19. Release Affected by this Change:	20. Date due to Customer:	21. Estimated Cost:
5A		None - Under 100K

22. Source Reference: ☒NCR (attach) ☐Action Item ☐Tech Ref. ☐GSFC ☐Other:
26751 26740

23. Problem: (use additional Sheets if necessary)
Database changes are required to support the transition from 5A to 5B operations. These changes MUST be applied before transition to 5B. The changes should be applied immediately after upgrade to Sybase Adaptive Server 11.5.1.

24. Proposed Solution: (use additional sheets if necessary)
Chnages to the 5A baseline have been made to allow transition of the Science Data Server to 5B. Apply the files and DB patches provided within to allow for this transition to take place. Refer to the next page for identification of the file names and installation instructions.

CM provide tar file to SMC. SMC provide access to the file(s) to the DAACs and VATC.

25. Alternate Solution: (use additional sheets if necessary)
Re-population of the data base.

26. Consequences if Change(s) are not approved: (use additional sheets if necessary)
Possible outage at the DAACs

27. Justification for Emergency (If Block 15 is "Emergency"):
Should be provided as soon as possible to prepare DAACs for the Transition.

28. Site(s) Affected: ☐EDF ☐PVC ☒VATC ☒EDC ☒GSFC ☒LaRC ☒NSIDC ☒SMC ☐AK ☐JPL ☐EOC ☐IDG Test Cell ☐Other

29. Board Comments:	30. Work Assigned To:	31. CCR Closed Date:

32. EDF/SCDV CCB Chair (Sign/Date):	Disposition: (Approved) App/Com. Disapproved Withdraw Fwd/ESDIS ERB ~~Fwd/ECS~~
Byron Peters 6/2/00	
33. M&O CCB Chair (Sign/Date):	**Disposition:** (Approved) App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS
6/2/00	
34. ECS CCB Chair (Sign/Date):	**Disposition:** Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ESDIS

ORIGINAL

ADDITIONAL SHEET

CCR #: 00-0598 **Rev:** – **Originator:** Evan Winston

Telephone: 301.925.0348 **Office:** DEV/CO

Title of Change: Test Executable 5A.06 Faun Testarossa.01 for Delivery to DAACs and VATC. Changes to ScienceDataServer Database for Transistion to 5B.

CM: PLEASE, build Sun TAR file(s) for the listed files from current 5A baseline and provide to the SMC.

ecs/formal/DSS/sdsrv/Sybase/db/tools/DsDbCleanOrientedPolygons
ecs/formal/DSS/sdsrv/Sybase/db/tools/Format_OrientedPolygon
ecs/formal/DSS/sdsrv/patches/DsDbPatch5633.sql
ecs/formal/DSS/sdsrv/patches/DsDbPatch5634.ksh
ecs/formal/DSS/sdsrv/patches/DsDbPatch5634.sql
ecs/formal/DSS/sdsrv/patches/DsDbPatch5636.ksh
ecs/formal/DSS/sdsrv/patches/DsDbPatch5636.sql
ecs/formal/DSS/sdsrv/patches/DsDbPatch5638.ksh
ecs/formal/DSS/sdsrv/patches/DsDbPatch5638.sql
ecs/formal/DSS/sdsrv/patches/DsDbPatch5638migr.sql
ecs/formal/DSS/sdsrv/patches/DsDbPatch5638procs.sql
ecs/formal/DSS/sdsrv/patches/DsDbCleanGranules
ecs/formal/DSS/sdsrv/patches/DsDbCleanSingleGranules
ecs/formal/DSS/sdsrv/patches/DsDbCleanCollections
ecs/formal/DSS/sdsrv/scripts/EcDsCheckArchive
ecs/formal/DSS/sdsrv/scripts/EcDsCheckArchive.README

SMC: Receive the TAR file(s) and make available to the DAACs.

DAAC Install Instructions:

Database changes are required to support the transition from 5A to 5B operations. These changes MUST be applied before transition to 5B. It is recommended that these changes SHOULD be applied immediately after upgrade to Sybase Adaptive Server 11.5.1.
Note:
a. These changes have been tested at Landover with Sybase Adaptive Server 11.5.1 using LaRC and EDC databases.
b. That implementation of these changes on Sybase Adaptive Server 11.3 has not been tested

General:
1. Get File from SMC distribution;
Use the 'cp' from the command line to install/replace files.

2. REPLACE all occurrances of the file included with this TE mode-by-mode, using the same permissions levels and ownerships as previous file.
INSTRUCTION FOR TEST EXECUTABLES TO 5A

• Instruction for installing the DsDbCleanOrientedPolygon scripts. This script will pull the existing polygons into a flat file, drop the table, which will get rid of the orphan polygons, recreate the table and bcp the data back in to the DsMdGrGPolygon table. It needs to install and run on the machine, which the sybase SQL Server run.

1. Copy the following scripts to /usr/ecs/<MODE>/CUSTOM/dbms/DSS
DsDbCleanOrientedPolygons
Format_OrientedPolygon

2. Execute the DsDbCleanOrientedPolygons script, which expects the following parameters:

Enter MODE : <MODE>
Enter database name: EcDsScienceDataServerX_MODE
Enter Sybase User Name: sdsrv_role
Enter Sybase password: <DBO password>
Enter UserName sa: sa
Enter sa password : < SA password>
Enter SQS Server: SQS Server Name
Enter Sybase Server: SQL Server Name (Note: This should be SQL Server only not SQS server)
Enter absolute path for sqsbcp executable. For example:
/usr/ecs/MODE/COTS/sqsxxx/sqs/bin/
(Note: Pick the correct SQS Server Version Path)
Enter group name of users to be granted privileges : sdsrv

Verify the log files /usr/ecs/<MODE>/CUSTOM/logs/DsDbOrientedPolygon.log
/usr/ecs/<MODE>/CUSTOM/dbms/DSS/DBoutfile_SQSbcpOPolygonError.log

NOTE: DsDbCleanOrientedPolygons script requires SA user and SA password and should be executed from sdsrv SGI machine (i.e., machine where SYBASE SQL SERVER resides). This script takes about 30 minutes to run with about 200,000 rows in the DsMdGrGPolygon table.

• The following is instruction for database patches that need install in the machine, which EcDsScienceDataServer run on.

1. Copy the following files to /usr/ecs/<MODE>/CUSTOM/dbms/DSS
   DsDbPatch5633.sql
   DsDbPatch5634.ksh
   DsDbPatch5634.sql
   DsDbPatch5636.ksh
   DsDbPatch5636.sql
   DsDbPatch5638.ksh
   DsDbPatch5638.sql
   DsDbPatch5638migr.sql
   DsDbPatch5638procs.sql
   DsDbCleanGranules
   DsDbCleanSingleGranules
   DsDbCleanCollections

2. Backup the database before applying the patches.

3. Check the current version of the database.
   SELECT * from EcDbDatabaseVersions
   WHERE EcDbCurrentVersionFlag = 'Y'

   If this SQL statement returns a row with EcDbSchemaVersionId equal to 5633, then continue with the following step 4. Otherwise, patch the database to version 5633 first.

4. Apply the database patch through ECS Assistant by running DbPatch with patch number 5.6.38.

NOTE: The patch 5.6.34 takes about 10 minutes to run with about 800,000 rows in the DsMdInputGranule table.
The patch 5.6.36 takes about 10 minutes to run with about 200,000 rows in the DsMdGranules table.
The patch 5.6.38 takes about 30 minutes to run with about 500,000 rows in the DsMdFileStorage table.

• Instruction for instaling the EcDsCheckArchive script.

1. Install the EcDsCheckArchive script to the machine, where the archive servers are located.